

Appl. No. 10/809,003
Amdt. sent April 28, 2006
Amendment under 37 CFR 1.116 Expedited Procedure
Examining Group 2851

PATENT

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-20 (canceled).

1 21. (Previously presented): A projection type image display device
2 comprising:
3 an illumination unit;
4 a light splitting unit which divides illumination light emitted from the illumination
5 unit into plural color components;
6 plural light valves each of which modulates one of the split light rays of the plural
7 color components;
8 a synthesizing unit which synthesizes the modulated light rays output from the
9 plural light valves;
10 a projection unit which projects the resulting synthesized modulated light; and
11 plural support holders formed of a heat-melting polymer material, each of the
12 support holders fixing one of the plural light valves and the synthesizing unit by heat-fusion of
13 the polymer material.

1 22. (Previously presented): The projection type image display device
2 according to claim 21, wherein the plural support holders are formed by integral injection
3 molding of a polymer material fixed to the synthesizing unit.

1 23. (Previously presented): The projection type image display device
2 according to claim 21, wherein each of the plural light valves is fused to a corresponding one of
3 the plural support holders by using at least two surfaces thereof comprising a tapered portion and
4 a straight portion.

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1 24. (Previously presented): The projection type image display device
2 according to claim 21, wherein when each of the plural light valves is fixed to the corresponding
3 one of the plural support holders, the position of each of the plural light valves is adjusted.

1 25. (Previously presented): The projection type image display device
2 according to claim 21, wherein each of the plural support holders includes a groove for fixing a
3 polarizing plate.

1 26. (Previously presented): A projection type image display device
2 comprising:
3 an illumination unit;
4 a light splitting unit which divides illumination light emitted from the illumination
5 unit into plural color components;
6 plural light valves each of which modulates one of the plural color components;
7 a synthesizing unit which synthesizes the modulated light rays output from the
8 plural light valves, each unit including a upper surface and a lower surface;
9 a projection unit which projects the resulting synthesized modulated light; and
10 plural support holders formed of a heat-melting polymer material, each of the
11 support holders fixing one of the plural light valves and the synthesizing unit by heat-fusion of
12 the heat-melting polymer material;
13 wherein each of the support holders is fixed to the upper surface and the lower
14 surface of the synthesizing unit.

1 27. (Previously presented): The projection type image display device
2 according to claim 26, wherein the plural support holders are formed by integral injection
3 molding of a polymer material fixed to the synthesizing unit.

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1 28. (Previously presented): The projection type image display device
2 according to claim 26, wherein each of the plural light valves is fused to a corresponding one of
3 the plural support holders using at least two surfaces thereof which include a tapered portion and
4 a straight portion.

1 29. (Previously presented): The projection type image display device
2 according to claim 26, wherein when each of the plural light valves is fixed to a corresponding
3 one of the plural support holders, the positions of each of the plural light valves is adjusted with
4 respect to each other.

1 30. (Previously presented): The projection type image display device
2 according to claim 26, wherein each of the plural light valves is fixed by fusion to a
3 corresponding one of the plural support holders after adjusting the position of the plural light
4 valves.

31. (Canceled)

1 32. (Previously presented): The projection type image display device
2 according to claim 26, wherein each of the plural light valves is fused to a corresponding one of
3 the plural support holders by using at least two surfaces thereof comprising a tapered portion and
4 a straight portion.

1 33. (Previously presented): The projection type image display device
2 according to claim 26, wherein when each of the plural light valves is fixed to a corresponding
3 one of the plural support holders, the position of each of the plural light valves is adjusted at the
4 time of fixing one of the plural support holders and the synthesizing unit to each other.

1 34. (Previously presented): The projection type image display device
2 according to claim 26, wherein each of the plural support holders includes a groove for fixing a
3 polarizing plate.

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1 35. (Previously presented): The projection type image display device
2 according to claim 26, wherein the modulated light rays are not transmitted through the upper
3 surface and the lower surface of the synthesizing unit.

1 36. (Previously presented): A projection type image display device
2 comprising:
3 an illumination unit;
4 a light-splitting unit which divides illumination light emitted from the
5 illumination unit into plural color components;
6 plural light valves each of which modulates the plural color components;
7 a synthesizing unit which synthesizes the modulated light rays output from the
8 plural light valves;
9 a projection unit which projects and displays the resulting synthesized modulated
10 light; and
11 plural support holders formed of a heat-melting polymer material, each of which
12 fixes one of the plural light valves and the synthesizing unit to each other;
13 wherein a melting point of the material of a profile portion of each of the plural
14 light valves and that of the material of a mounting portion of each of the plural support holders
15 are at least 40 degrees apart from each other.

1 37. (Previously presented): The projection type image display device
2 according to claim 36, wherein each of the plural support holders includes a groove for fixing a
3 polarizing plate.

1 38. (Previously presented): The projection type image display device
2 according to claim 36, wherein the plural support holders are formed by integral injection
3 molding of a polymer material fixed to the synthesizing unit.

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1 39. (Previously presented): The projection type image display device
2 according to claim 36, wherein when each of the plural light valves is fixed to corresponding one
3 of the plural support holders, the position of each of the plural light valves is adjusted at the time
4 of fixing one of the plural support holders and the synthesizing unit to each other.

1 40. (Previously presented): The projection type image display device
2 according to claim 36, wherein each of the plural support holders is formed of a heat-melting
3 polymer material.

1 41. (Previously presented): The projection type image display device
2 according to claim 36, wherein each of the plural support holders is fixed to the upper surface
3 and the lower surface of the synthesizing unit.